SBR: 000017 | 22-23
date: 03.09.2022

BR: 000017 | 22-23
date: 03.09.2022

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works) Date.....

Nr. 3rd & Final bill

Division: **Electricals** Sub-Division: **Electricals**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **JOB NO 012-22-000009**

Schedule Docket No. Head of Account : P1828 Provision Of Additional Fittings Streetlights

D.R.No

Name of Work :- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 12

Name of Contractor and Full Address:- M/s. NAGARAJU LINGAIAH (VEDHA ELECTRICALS),

Reference to Agreement No:- EE/Ele/DZ/TEND/AG/000005/22-23 Date:26.04.2022

Reference to Work order No:- EE/Ele/DZ/TEND/WO/000012/22-23 Date:05.05.2022

Certified that the measurements were taken by me on 21/7/22 and recorded of Pages 68 to 70 of measurement Book No. And that the work is satisfactorily executed.

For Vedha Electricals

Contractor

Officer-in-charge of work

JUNIOR ENGINEER (Ele)

Bruhath Bangalore Mahanagara Palike

Dasarahalli Zone, Bangalore

Certified that the measurement were taken by me on 21/7/22 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

1)	Total value of work done or supplies made as per account with	Present bill:	24137069/00
2)	Deduct amount to be held in reserve being Percent Rs.		
3)	" Balance		
4)	Deduct Payment:		
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	Amount	
	b) Payments Now made: cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.		
5)	Balance being unpaid value of work done held in reserve.		
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7)	Net amount due to or from Contractor unadjustments items.		
8)	Advance to Contractor for materials brought to site (as detailed) within.		
9)	Value of Government materials supplied.		

IT (1%) 241371=00
CGST (1%) 2155 10=00
SGST (1%) 2155 10=00
LWC (1%) 241371=00
CBT (0.1%) 24137=00
Diffion. 937899=00
Total 23199170=00

Total amount adjusted -

For Vedha Electricals

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

For Vedha Electricals

Witness
1.
2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated..... Proprietor

Cash Rs.....

Dated.....

Initials of Officer making payment

Passed and admitted for Rs. 24137069/-
(For use in the Office)
Passed by Cheque for Rs. 23199170/-
(Rupees Twenty Three Crore Ninety Nine Lakh Seventy One Thousand One Hundred Seventy Only)
by adjustment Rs. 937899=00

Accounts Superintendent

Exe. Engineer (Ele)

B.B M.P. Dasarahalli Division

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Sl. No	Description of Item	Unit	Previous Measurement				Present Measurement			Total Upto Date		Remarks
	Name Of Work:- Providing LED Street lights/Poles/Control switches/control wires at Dark/volernabal places in Ward no 12		Qty	Cost	Qty	Rate	Amount	Qty	Cost			
1	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains. Surge Protection- Min 5KV along with Over voltage/ Overload short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Powerconsumption LED Efficiency>130lm/w nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Streetlight 90 Watts	Nos			1800	7625 40	13725720 00	1800	13725720 00		
2	Fabricating, supplying and erecting swaged tubular pole of height Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enamelled paint of approved quality and colour and M.S base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7 5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0 6M above ground level as per IS 2713 - 7 Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165 1mm dia 4 85mm thick x2M Hm, 139 7mm dia 4 50mm thick x 2M Ht.114 3mm dia 3 65mm thick) as per IS 410 SP 32	Nos			106	14058 00	1490148 00	106	1490148 00		
3	Supplying and fixing of Hot dip Galvanized M S Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete Single Arm Bracket with 1500mm Standard 40/50MM dia	Nos			106	2249 28	238423 68	106	238423 68		
4	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires	Nos			1800	186 38	335484 00	1800	335484 00		
5	Supplying and Fixing of mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires Using 32mm dia G I Pipe	Nos			1750	889 28	1556240 00	1750	1556240 00		
6	Supplying of 1 1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1. Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs			1199 1197	159 75	191540 25	1197	191540 25 191220		
7	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring 4 sqmm	Mtrs			4900	9 59	46991 00	4900	46991 00		
8	Supplying of 1 1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1. Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 3 5 core 25 sqmm	Mtrs			678	191 70	129972 60	678	129972 60		
9	Labour charges for laying of 1 1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required 6 sqmm to 16 sqmm	Mtrs			1200	12 65	15180 00	1200	15180 00		
10	Labour charges for laying of 1 1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required 25sqmm to 75 sqmm	Mtrs			678	16 51	11193 78	678	11193 78		
11	Digging of trench of 0 6m deep x 0 50 mtr wide refilling the trench to the required ground level and consolidating etc complete (As per Civil SR KSRB I-2 P-7)In soil (ordinary)	Mtrs			1000	80 94	80940 00	1000	80940 00		
12	Supplying fixing wiring earth electrode for grounding conduits, I C cutouts and other equipment's on the meter board using 40mm dia 2 90mm thick GI pipe 2 5 mtr long buried in a pit .... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7 1 3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	Mtrs			8	3194 68	25557 44	8	25557 44		

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13	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required 25x3mm GI strip	Mtr		40	79 88	3195 20	40	3195 20	
14	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc complete 16SWG	Mtr		245000	0 37	90650 00	245000	90650 00	
15	Supplying and fixing angle iron frame work fabricated out of M S angle iron and M S flat with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint 40x40x6mm	Nos		25	271 58	6789 50	25	6789 50	
16	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947 (Icu = Ics)FOUR POLE 100Amps 25kA	Nos		7	6816	47712 00	7	47712 00	
17	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers	Nos		7	4291 95	30043 65	7	30043 65	
18	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947 100 to 125Amps	Nos		7	7668	53676 00	7	53676 00	
19	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve indicator ON/OFF energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 50-63Amps TPN	Nos		10	2552 81	25528 10	10	25528 10	
20	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N F screws	Sqcm s		70000	0 29	20300 00	70000	20300 00	
21	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS 8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694 1990 3C X 1 5Sq mm	Mtrs		250	58 58	14645 00	250	14645 00	
22	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments 6 sqmm	Mtrs		62	74 55	4622 10	62	4622 10	
23	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes a)1 5 sqmm	Nos		150	3 20	480 00	150	480 00	
24	b) Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following szes6 Sqmm	Nos		120	7 46	895 20	120	895 20	
25	c) Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes16 Sqmm	Nos		600	13 25	7950 00	600	7950 00	
26	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3 25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1 1 KV 40mm	Nos		10	356 78	3567 80	10	3567 80	
27	Supplying and fixing L T cast Iron pot heads suitable for 1 1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.25Sqmm	Nos		8	372 75	2982 00	8	2982 00	
28	1 1 kV LT Aerial Bunched Cable, confirming to IS-14255 1995 XLPE insulation Parameter shall be as below 1 Hot Set Test: a) Elongation under Load 50% (Max) b) Permanent Elongation After Cooling 3% (Max) 2 Thermal Aging in oven a) Tensile Strength 16 N/mm^2 (Min) b) Elongation 375% (Min) 3 Water Absorption Test a) Water absorbed 0 5 mg/cm^2 (Max) 4 Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral)	Mtrs		5 695	156555 00	891580 73	5 690	891580 73	
29	Stringing of 1 1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)	Mtrs		5 695	23929 49	136278 45	5 690	136278 45	
30	PCC Pole - 9 Mtr Long, 145 Kg WL	Nos		10	6664 77	66647 70	10	66647 70	
31	LT 2 Pin Cross Arm with clamps, bolts, nuts & washers with braces - MS for PCC pole	Nos		80	291 81	23344 80	80	23344 80	
32	c) No. 9 Strain insulator	Nos		29	17 04	494 16	30 24	494 16	
33	Laying of UG Cables by trenchless technology by adopting horizontal boring & Drawing of cable including preparation at site With HDPE Pipe i) Normal soil 5/6" bore size	Mtrs		30	903 12	27093 60	30	27093 60	

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34	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK09 Power Factor >0 9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB . LED Efficiency>130lm/w,nominal CRI >75. Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source LED Post Top Lantern with 25 watts	Nos	75	6816 00	511200 00	75	511200 00	
35	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Powerconsumption LED Efficiency>130lm/w, nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government	Nos	105	9798 00	1028790 00	105	1028790 00	
36	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material,delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598 LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Power consumption LED Efficiency>130lm/w,nominal CRI >75 Luminaire manufacturer should have in house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/Lumileds/Osram make LED Source LED Floodlight 120W	Each	6	9372	56232 00	6	56232 00	
37	Fabricating, supplying and erection of ... Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for ..... Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom ... mm, top ... mm with 3mm thick, suitable base plate and 4Nos of ... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended 3 meters - Top 70mm and bottom 130mm dia	Each	75	5708 40	428130 00	75	428130 00	
38	Earthwork excavation for foundation of buildings,water supply,sanitary lines and electrical conduits either in pits or in trenches 1 5m and above in width, in ordinary soil not exceeding 1 5 m in depth including dressing the bottom and sides of pits and trenches,stacking the excavated soil clear from edges of excavation with lead upto 50m including breaking of clods complete as per specifications KSRB 2 1 1 - do-Ordinary soil	Cum	19 00 18.75	362 78	6892 82	19 18.75	6892 82 6802	
39	KSRB 4-6 1 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications (p NO-16, I No-4 28)	Sqmtrs	32	291 26	9320 32	32	9320 32	
40	KSRRB Providing and laying in position plain cement concrete of nominal mix 1 4 8 with OPC @ 180Kgs with using 40 mm and down size graded granite metal coarse aggregates @0 85cum and fine aggregates @ 0 57cum mechine mixed concrete laid in layers not exceeding 15cm thick well compacted in foundation and plinth,including cost of all materials ,labour,HOM machinaries ,curing complete as per specifications KBS 4 1 4 2	Cum	0 94	6181 05	5810 187	0 94	5810 19	

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41	KSRB 4 9 2 : Providing T M T steel reinforcement for R C C work including straightening, cutting, bending, hooking, placing in position,lapping and I or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of matenals, labour, HOM of machinery omplete as per specifications Specification No KBS 4 6.3 (12mm, 0 89kgm & 8mm, 0 39kg/m @ 150mm c/c)	Kg	582	98 68	5743176	582	5743176	
42	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R C C works laid in 15 cms thick layers and well compacted vibrating, curing for raft foundation column footing , main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges)4 48	cum	8	6894 94	55159 52	8	55159 52	
	Total Rs				21464833.34		21464833.34	21466623
	Add Gst 12% On Item No 1 to 27 & 34 to42				2575780 00		2575780 001	
	Add NBESCOm Charges				96866 00		96866	
	Total Rs				24137479.34		24137479.34	

24137069

Certificate:

Certify that the work has been conducted satisfactorily

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

ASST EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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